

## SEQUENCE LISTING

SEQ ID NO: 1

LENGTH: 377

TYPE: amino acid

5 TOPOLOGY: linear

MOLECULE TYPE: peptide

## SEQUENCE DESCRIPTION:

	Met	Lys	Phe	Pro	Gly	Pro	Leu	Glu	Asn	Gln	Arg	Leu	Ser	Phe	Leu
					5					10					15
10	Leu	Glu	Lys	Ala	Ile	Thr	Arg	Glu	Ala	Gln	Met	Trp	Lys	Val	Asn
					20					25					30
	Val	Arg	Lys	Met	Pro	Ser	Asn	Gln	Asn	Val	Ser	Pro	Ser	Gln	Arg
					35					40					45
	Asp	Glu	Val	Ile	Gln	Trp	Leu	Ala	Lys	Leu	Lys	Tyr	Gln	Phe	Asn
15					50					55					60
	Leu	Tyr	Pro	Glu	Thr	Phe	Ala	Leu	Ala	Ser	Ser	Leu	Leu	Asp	Arg
					65					70					75
	Phe	Leu	Ala	Thr	Val	Lys	Ala	His	Pro	Lys	Tyr	Leu	Ser	Cys	Ile
					80					85					90
20	Ala	Ile	Ser	Cys	Phe	Phe	Leu	Ala	Ala	Lys	Thr	Val	Glu	Glu	Asp
					95					100					105
	Glu	Arg	Ile	Pro	Val	Leu	Lys	Val	Leu	Ala	Arg	Asp	Ser	Phe	Cys
					110					115					120
	Gly	Cys	Ser	Ser	Ser	Glu	Ile	Leu	Arg	Met	Glu	Arg	Ile	Ile	Leu
25					125					130					135
	Asp	Lys	Leu	Asn	Trp	Asp	Leu	His	Thr	Ala	Thr	Pro	Leu	Asp	Phe

	140	145	150
	Leu His Ile Phe His Ala Ile Ala Val Ser Thr Arg Pro Gln Leu		
	155	160	165
	Leu Phe Ser Leu Pro Lys Leu Ser Pro Ser Gln His Leu Ala Val		
5	170	175	180
	Leu Thr Lys Gln Leu Leu His Cys Met Ala Cys Asn Gln Leu Leu		
	185	190	195
	Gln Phe Arg Gly Ser Met Leu Ala Leu Ala Met Val Ser Leu Glu		
	200	205	210
10	Met Glu Lys Leu Ile Pro Asp Trp Leu Ser Leu Thr Ile Glu Leu		
	215	220	225
	Leu Gln Lys Ala Gln Met Asp Ser Ser Gln Leu Ile His Cys Arg		
	230	235	240
	Glu Leu Val Ala His His Leu Ser Thr Leu Gln Ser Ser Leu Pro		
15	245	250	255
	Leu Asn Ser Val Tyr Val Tyr Arg Pro Leu Lys His Thr Leu Val		
	260	265	270
	Thr Cys Asp Lys Gly Val Phe Arg Leu His Pro Ser Ser Val Pro		
	275	280	285
20	Gly Pro Asp Phe Ser Lys Asp Asn Ser Lys Pro Glu Val Pro Val		
	290	295	300
	Arg Gly Thr Ala Ala Phe Tyr His His Leu Pro Ala Ala Ser Gly		
	305	310	315
	Cys Lys Gln Thr Ser Thr Lys Arg Lys Val Glu Glu Met Glu Val		
25	320	325	330
	Asp Asp Phe Tyr Asp Gly Ile Lys Arg Leu Tyr Asn Glu Asp Asn		

	335	340	345
	Val Ser Glu Asn Val Gly Ser Val Cys Gly Thr Asp Leu Ser Arg		
	350	355	360
	Gln Glu Gly His Ala Ser Pro Cys Pro Pro Leu Gln Pro Val Ser		
5	365	370	375
	Val Met		

SEQ ID NO: 2

LENGTH: 1134

10 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA

SEQUENCE DESCRIPTION:

15	ATG AAG TTT CCA GGG CCT TTG GAA AAC CAG AGA TTG TCT TTC CTG	45
	TTG GAA AAG GCA ATC ACT AGG GAA GCA CAG ATG TGG AAA GTG AAT	90
	GTG CGG AAA ATG CCT TCA AAT CAG AAT GTT TCT CCA TCC CAG AGA	135
	GAT GAA GTA ATT CAA TGG CTG GCC AAA CTC AAG TAC CAA TTC AAC	180
	CTT TAC CCA GAA ACA TTT GCT CTG GCT AGC AGT CTT TTG GAT AGG	225
20	TTT TTA GCT ACC GTA AAG GCT CAT CCA AAA TAC TTG AGT TGT ATT	270
	GCA ATC AGC TGT TTT TTC CTA GCT GCC AAG ACT GTT GAG GAA GAT	315
	GAG AGA ATT CCA GTA CTA AAG GTA TTG GCA AGA GAC AGT TTC TGT	360
	GGA TGT TCC TCA TCT GAA ATT TTG AGA ATG GAG AGA ATT ATT CTG	405
	GAT AAG TTG AAT TGG GAT CTT CAC ACA GCC ACA CCA TTG GAT TTT	450
25	CTT CAT ATT TTC CAT GCC ATT GCA GTG TCA ACT AGG CCT CAG TTA	495
	CTT TTC AGT TTG CCC AAA TTG AGC CCA TCT CAA CAT TTG GCA GTC	540

CTT ACC AAG CAA CTA CTT CAC TGT ATG GCC TGC AAC CAA CTT CTG 585  
 CAA TTC AGA GGA TCC ATG CTT GCT CTG GCC ATG GTT AGT CTG GAA 630  
 ATG GAG AAA CTC ATT CCT GAT TGG CTT TCT CTT ACA ATT GAA CTG 675  
 CTT CAG AAA GCA CAG ATG GAT AGC TCC CAG TTG ATC CAT TGT CGG 720  
 5 GAG CTT GTG GCA CAT CAC CTT TCT ACT CTG CAG TCT TCC CTG CCT 765  
 CTG AAT TCC GTT TAT GTC TAC CGT CCC CTC AAG CAC ACC CTG GTG 810  
 ACC TGT GAC AAA GGA GTG TTC AGA TTA CAT CCC TCC TCT GTC CCA 855  
 GGC CCA GAC TTC TCC AAG GAC AAC AGC AAG CCA GAA GTG CCA GTC 900  
 AGA GGT ACA GCA GCC TTT TAC CAT CAT CTC CCA GCT GCC AGT GGG 945  
 10 TGC AAG CAG ACC TCT ACT AAA CGC AAA GTA GAG GAA ATG GAA GTG 990  
 GAT GAC TTC TAT GAT GGA ATC AAA CGG CTC TAT AAT GAA GAT AAT 1035  
 GTC TCA GAA AAT GTG GGT TCT GTG TGT GGC ACT GAT TTA TCA AGA 1080  
 CAA GAG GGA CAT GCT TCC CCT TGT CCA CCT TTG CAG CCT GTT TCT 1125  
 GTC ATG TAG 1134

15 SEQ ID NO : 3

LENGTH : 33

TYPE : nucleic acid

STRANDEDNESS : double

TOPOLOGY : linear

20 MOLECULE TYPE : DNA

SEQUENCE LISTING

CGTTCCTGGG TATGAAGTTT CCAGGGCCTT TGG 33

SEQ ID NO : 4

LENGTH : 31

25 TYPE : nucleic acid

STRANDEDNESS : double

TOPOLOGY : linear

MOLECULE TYPE : DNA

SEQUENCE LISTING

ACGGCTCGAG CTACATGACA GAAACAGGCT G

31

5

SEQ ID NO : 5

LENGTH : 14

TYPE : amino acid

TOPOLOGY : linear

10

MOLECULE TYPE : peptide

SEQUENCE LISTING

Glu Asp Asn Val Ser Glu Asn Val Gly Ser Val Cys Gly Thr

5

10